

Title (en)

PREPARATION OF ALKYLAROMATIC HYDROCARBONS AND ALKYLARYL SULFONATES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ALKYLAROMATISCHEN KOHLENWASSERSTOFFEN UND VON ALKYLAROMATISCHEN SULFONATEN

Title (fr)

PREPARATION D'HYDROCARBURES ALKYLAROMATIQUES ET DE SULFONATES D'ALKYLARYLE

Publication

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Application

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Abstract (en)

[origin: US2005165264A1] In a process for preparing an alkylaromatic hydrocarbon composition an olefinic hydrocarbon mixture and an aromatic compound are contacted under alkylation conditions with an aromatic alkylation catalyst selected from a homogeneous acid catalyst and heterogeneous acid catalyst comprising a molecular sieve having an X-ray diffraction pattern including d-spacing maxima at 12.4 ± 0.25 , 6.9 ± 0.15 , 3.57 ± 0.07 and 3.42 ± 0.07 Angstroms. The olefinic hydrocarbon mixture comprises at least 5 wt % by weight of mono-olefin oligomers of the empirical formula: C_nH_{2n} wherein n is greater than or equal to 10, the mono-olefin oligomers comprising at least 20 percent by weight of olefins having at least 12 carbon atoms, and the olefins having at least 12 carbon atoms having an average of from 0.8 to 2.0 C_1 alkyl branches per carbon chain. Sulfonation of the alkylaromatic hydrocarbon product produces an alkylaryl sulfonate mixture that exhibits advantageous properties, such as biodegradability and hard and cold water performance.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR US)

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